PCT

REC'D 2 9 OCT 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant'	s or ac	ent's file reference	T				
H1-108PCT		FOR FURTHER A	CTION Se	e Notification of Transmittal of Interr liminary Examination Report (Form	national PCT/IPEA/416)		
Internation	nal app	lication No.	International filing date (day/month/year	Priority date (day/month/)	year)	
PCT/JP	00/04	895	21/07/2000		23/07/1999		
Internation C12N15		ent Classification (IPC) or na	tional classification and IP	С			
Applicant							
HELIX F	RESE	ARCH INSTITUTE et a	l				
1. This and	intern is tran	ational preliminary exami smitted to the applicant a	nation report has been ccording to Article 36.	prepared by t	nis International Preliminary Ex	amining Authority	
2. This	2. This REPORT consists of a total of 6 sheets, including this cover sheet.						
	☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
Thes	e ann	exes consist of a total of	sheets.	.			
			-				
3. This	report	contains indications relat	ing to the following iten	ns:	•		
1	\boxtimes	Basis of the report					
		Priority	• •				
Ш	\boxtimes	Ţ	pinion with regard to no	velty inventive	step and industrial applicabilit		
١٧		Lack of unity of invention	n		otop and modelina applicabilit	У	
· V	×	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement					
VI		Certain documents cited					
VII		Certain defects in the international application					
VIII		Certain observations on	the international applic	ation			
Date of sub	Date of submission of the demand			Date of comple	lion of this report		
12/02/2001				25.10.2001			
Name and mailing address of the international preliminary examining authority:				Authorized office	er	SO NEOVES MICHIGAN	
European Patent Office D-80298 Munich Tel +49.89.2399, 0. Try 523555 carry d				Halle, F		SES GREAT STATE OF THE SES	

Telephone No. +49 89 2399 8537



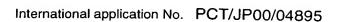


International application No. PCT/JP00/04895

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1.	with regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:					
	1-2	23	as originally filed			
	Claims, No.:					
	1-1	6	as originally filed			
	Dra	awings, sheets:				
	1/1		as originally filed			
Sequence listing part of the description, pages:						
	1/2	7-27/27, as originall	y filed			
 With regard to the language, all the elements marked above were available or furnished to this Authority in t language in which the international application was filed, unless otherwise indicated under this item. 						
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:			
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).			
			iblication of the international application (under Rule 48.3(b)).			
		_ .				
3.	With	h regard to any nuc rnational preliminan	leotide and/or amino acid sequence disclosed in the international application, the yexamination was carried out on the basis of the sequence listing:			
	\boxtimes	contained in the international application in written form.				
			the international application in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence rnished.			
4.	The	amendments have	resulted in the cancellation of:			





		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been considered to go bey	established as if (some of) the amendments had not been made, since they have to ond the disclosure as filed (Rule 70.2(c)):	sec			
		(Any replacement st report.)	eet containing such amendments must be referred to under item 1 and annexed to	thi			
6.	Additional observations, if necessary: see separate sheet						
111.	. Nor	n-establishment of o	pinion with regard to novelty, inventive step and industrial applicability				
1.	The obv	questions whether th ious), or to be industri	e claimed invention appears to be novel, to involve an inventive step (to be non- ally applicable have not been examined in respect of:				
		the entire internation	al application.				
	×	claims Nos. 1-16(par	tly).				
be	caus	e: <i>≴</i>	₹				
		the said international not require an interna	application, or the said claims Nos. relate to the following subject matter which doe tional preliminary examination (specify):	es			
		the description, claim that no meaningful op	s or drawings (<i>indicate particular elements below</i>) or said claims Nos. are so uncle inion could be formed (<i>specify</i>):	ar			
		the claims, or said cla	ims Nos. are so inadequately supported by the description that no meaningful opin	iior			
	×	no international searc	h report has been established for the said claims Nos. 1-16(partly).				
2.	and/	eaningful internationa or amino acid sequen uctions:	preliminary examination cannot be carried out due to the failure of the nucleotide ce listing to comply with the standard provided for in Annex C of the Administrative				
			ot been furnished or does not comply with the standard. e form has not been furnished or does not comply with the standard.				

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;

citations and explanations supporting such statement



International application No. PCT/JP00/04895

1. Statement

Novelty (N)

Yes:

Claims 1-16

No:

Claims

Inventive step (IS)

Yes:

Claims 1-16 Claims

No:

Yes:

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Claims 1-16

No: Claims

2. Citations and explanations see separate sheet

Industrial applicability (IA)



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Point I.6

The application contains sequence listing sheets 1/27-27/27. 1.

Point III

2. The following comments only apply to the subject-matter of the claims searched according to the International search report, i.e. claims 1-16 (partly) corresponding to the first group of inventions relating to an isolated polynucleotide comprising SEQ ID NO:1 and/or encoding the polypeptide of SEQ ID NO: 2 or homologs thereof and the corresponding polypeptides, peptides, antibodies, probes, antisense molecules, methods of synthesis and methods of detection. The claims not searched according to the International search report, i.e. claims 1-16 (partly) corresponding to the remaining groups of inventions 2 to 4 will not be the subject of international preliminary examination (Rule 66.1(e) PCT).

Point V

3. In this report it is referred to the following documents:

D1: Database EMBL, Acc. No. AA 631 935

D2: WO 99/20750

Having regard to the prior art D1 and D2, the subject-matter of claims 1-16 (partly) 4. corresponding to the first group of inventions (see item 2 above) appears to be novel and to involve an inventive step. Said subject-matter is based on the more specific polynucleotide sequence defined as SEQ ID NO:1 and the polypeptide sequence defined as SEQ ID NO: 2 which are not anticipated by the prior art.

Although said subject-matter may be considered as novel an inventive, it does not appear to be sufficiently defined (Article 6 PCT). For example, in claim 1, part (a), it is referred to a coding region of a nucleotide sequence without specifying the function or the nature of the encoded protein. The same remark applies to claim 2 where it is referred to a partial peptide of the protein of claim 2. Furthermore, the wordings "a coding region of" or "a partial peptide of" do not enable the skilled





International application No. PCT/JP00/04895

person to determine with certainty which technical features are necessary to perform the invention according to the matter for which protection is sought.